

Amendments to the Specification:

Please replace the paragraph beginning on page 17, line 21, with the following rewritten paragraph:

Referring to **FIG. 10**, the Mark Edge Module **58** takes the packed form of the high-resolution Selector Spk **122** and counts the number of on and off pixels in a 5x5 [high-resolution] window **155150** centered on the current pixel **80** of interest. The output from the Mark Edge Module **58** is the four-valued signal See **142**. The See signal **142** is set to 0 if all of the input pixels inside the window are 0 (corresponding to a constant background area). Similarly, the See signal **142** is set to 3 if all of the input pixels inside the window are on (corresponding to a constant foreground area). In addition, the See output **142** is set to either 1 or 2 if the content of the window is mostly background or mostly foreground, respectively. Note that since See is only 4 values and could be coded with 2 bits.

Please replace the paragraph beginning on page 18, line 14, with the following rewritten paragraph:

The 5x5 high-resolution context is designed for “detecting” potential edges in the proximity of the current pixel of interest. The window pattern uses a full context of 2 [high-resolution] pixels extending below and to the right of the current pixel, but only one from above or on the left. Note that the unique window pattern prevents any edge from overlapping with the neighboring pixels, that is – no potential edge location could be detected (i.e., shared) more than once, in association with multiple (low-resolution) pixels. The $4 \times 4 = 16$ possible edge locations within the current window of interest are also indicated in **FIG. 11**.

Please replace the paragraph beginning on page 23, line 7, with the following rewritten paragraph:

The gray selector signal Grr from the PDL MRC Segmentation Module **2526** is processed through the Block Smoothing Unit **56** to create the smoothed gray selector signal Grs, which is forwarded to the Binary Scale Unit **66**. The Binary Scale Unit **66** thresholds the

Grs signal to create the binary Selector signal Sel. Since the quality of PDL data is not improved by super-sampling the selector produced by the Binary Scale unit is always at the Src resolution. The operation of the Block Smoothing Unit and Binary Scale Unit is described above, respectively.